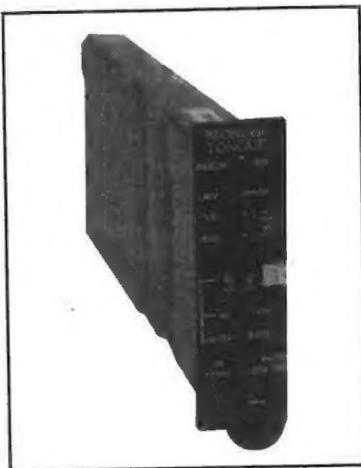


HE-12 and HE-4 Modular Headend System

Headend



ORDERING INFORMATION:

AMCM-806
Stock No. 7766

ACCESSORIES:

Horizontal Agile Modulator
AMCM-806H
Stock No. 7766H

Rack Chassis
MIRC-12V
Stock No. 7715

Power Supply
MIPS-12C
Stock No. 7722C

The AMCM-806 is a professional quality agile audio/video modulator with an output frequency range of 54-806 MHz. It joins Blonder Tongue's impressive family of modular headend components and works in conjunction with the MIRC-12V rack chassis and MIPS-12C power supply.

The unit provides a modulated aural & visual carrier on any channel in the 54 to 806 MHz range. Frequency plan including Standard CATV, IRC, HRC and Broadcast are accommodated via front panel selection. Channel tuning easily accomplished with the use of front panel switches following the entry instructions. All channels with appropriate FCC offsets are pre-programmed and tuned electronically via microprocessor.

The unit accepts any standard audio/video source such as satellite receivers, television camera, video tape recorders demodulators. The advanced design ensures front panel access with LED indicators for all level and over-modulation controls. Internal selectable jumper settings allow for compatibility of features such as defeatable audio pre-emphasis & BTSC compatibility.

Special features have been built into the unit firmware to ensure the best possible user experience. This includes the ability to alert an operator to any inadvertent or designed change to the unit switches by flashing a red error indicator. The indicator will continue to flash until the condition is corrected or the unit is reset.

FEATURES:

- Supports all Broadcast and CATV channels, including HRC and IRC assignments from 54 to 806 MHz.
- Meets FCC Docket 21006 Aeronautical Frequency Response Offset Requirements
- Fully Compatible with BTSC Encoded Stereo Audio
- Front Panel Access to All Level Controls and Indicators
- Die-Cast Chassis Offers Superior Protection Against Ingress or Egress
- Compatible with Blonder Tongue's Modular MIRC-12V Rack Chassis and MIPS-12C Power Supply
- Horizontal Unit Compatible with Blonder Tongue's MIRC-4C Chassis and FAxM Series Products
- Three Year Warranty

www.blondertongue.com

Toll Free For Ordering!
800-523-6049
FAX 800-336-6295

HE-12 and HE-4 Modular Headend System

C4-4

Headend

RF	AMCM-806	Units
Frequency Range:	54-806	MHz
Channels:	CATV, VHF, UHF (STD,HRC,IRC)	
FCC Offset (pre-programmed):	0, +12.5, or 25	kHz
Output Level - Min:	+45	dBmV
Output Level Adjust:	15 (k)	dB
Aural/Visual Carrier Ratio:	-10 to -17(a)	dB
Visual Carrier Frequency Tolerance		
Standard Channels:	±5	kHz
FCC Aeronautical Channels:	±3 max	kHz
4.5 MHz Aural Inter Carrier Frequency:	±1(i)	Hz
Channel Selectivity: Adjacent Aural and Below:	-40	dB
Adjacent Picture and Above:	-50	dB
Spurious Outputs:	-60	dBc
C/N Ratio In Channel:	65 (b)	dB
Broadband Noise:	-76 (b)	dBc
Output Impedance:	75	Ω
Output Return Loss:	12	dB
VIDEO		
Input Level:	1.0 (d)	V p-p
Frequency Response fv-0.5 MHz to fv+4.2 MHz:	±1.0	dB
P-P Video to RMS Hum Ratio:	65	dB
Video Signal-to-Noise Ratio, NTC-7 Weighted:	62	dB
Differential Gain:	2.0 (d)	%
Differential Phase:	1.0 (d)	°
C/L Delay Inequality:	see note (c)	ns
Over Modulation Indicator:	87.5, ±2.5	%
Input Impedance:	75	Ω
Input Return Loss:	24	min, dB

AUDIO		
Input Level:	140(e)	mV RMS
Ext. 4.5 MHz Input Level:	40 ±1(f)	dBmV
Frequency Range:	20 Hz to 20 kHz	
Pre-Emphasis-Mono:	75 (j)	μs
Frequency Response:	±1.0 (g)	dB
IF Pre-Emphasis defeated:	+0.5	dB
Audio Signal-to-Noise:	58 (e)	dB
Total Harmonic Distortion:	0.6 (h)	%
Over Modulation Indicator:	25, ±2	kHz
Input Impedance:	Greater than 10k Ω, unbalanced	

GENERAL		
Power Requirements		
Voltage:	+12, +5	VDC
Power:	5	W
Temperature Range:	0 to +50	°C
Current:	235, 375	mA
MECHANICAL		
Dimensions (WxHxD):	1.15 x 3.5 x 7.5	in
	29 x 89 x 101	mm
Weight:	0.8	lbs
	.36	kg

CONNECTORS (Rear Panel)		
Video Input:	"F" type, female	
Audio Input:	RCA Phono	
RF Output:	"F" Type Female	
CONTROLS (Front Panel)		
Frequency Selection:	Push-Button Switches	
Video Level:	Control	
A/V Ratio:	Control	
Audio Level:	Control	
RF Output Level:	Control	
Channel Enter:	Push Button	
INDICATORS (Front Panel)		
Power ON:	2 color LED, red/green	
Video Over Modulation:	LED, red	
Audio Over Modulation:	LED, red	

NOTES

- (a) approximate, adjustable in 1 db increments
- (b) 4 MHz bandwidth, +45 dBmV output
- (c) meets FCC CATV group delay pre-distortion requirements for color transmission
- (d) 87.5% depth of modulation
- (e) for 25 kHz peak deviation
- (f) available via internal jumper setting
- (g) referenced to standard 75 μs pre-emphasis
- (h) 20 Hz to 20 kHz, 25 kHz deviation
- (i) 0 °C to +50 °C
- (j) defeatable via internal jumper setting for BTSC stereo compatibility
- (k) continuously adjustable, optimum performance at +35 to +45 dBmV

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